

INPUT SET: S20107.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Lo, Reggie Y.C.
6 Schryvers, Anthony B.
7 Potter, Andrew A
8
9 (ii) TITLE OF INVENTION: Transferrin Binding Proteins of
10 Pasteurella Haemolytica and Vaccines Containing Same
11
12 (iii) NUMBER OF SEQUENCES: 52
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: BAKER & BOTTS
16 (B) STREET: 1299 Pennsylvania Avenue
17 (C) CITY: Washington
18 (D) STATE: D.C.
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 20004-2400
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: US 08/753,750
30 (B) FILING DATE: 29-NOV-1996
31 (C) CLASSIFICATION:
32
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: US 60/008,569
35 (B) FILING DATE: 01-DEC-1995
36
37 (viii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: CA 2,164,274
39 (B) FILING DATE: 01-DEC-1995
40
41 (ix) ATTORNEY/AGENT INFORMATION:
42 (A) NAME: Remenick, James
43 (B) REGISTRATION NUMBER: 36,902
44 (C) REFERENCE/DOCKET NUMBER: 63637-0102
45
46 (ix) TELECOMMUNICATION INFORMATION:

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47 (A) TELEPHONE: (202) 639-7996
48 (B) TELEFAX: (202) 639-7890

49
50
51 (2) INFORMATION FOR SEQ ID NO:1:

52
53 (i) SEQUENCE CHARACTERISTICS:
54 (A) LENGTH: 2784 base pairs
55 (B) TYPE: nucleic acid
56 (C) STRANDEDNESS: single
57 (D) TOPOLOGY: linear

58
59 (ii) MOLECULE TYPE: DNA (genomic)

60
61 (vi) ORIGINAL SOURCE:
62 (A) ORGANISM: Pasteurella haemolytica (tbpA gene)
63 (B) STRAIN: H196

64

65

66

67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

68
69 ATGATAATGA AATATCATCA TTTTCGCTAT TCACCTGTTG CCTTAACAGT GTTATTGCT 60
70 CTTTCTCATT CATAACGGTGC TGCGACTGAA AATAAAAAAA TCGAAGAAAA TAACGATCTA 120
71 GCTGTTCTGG ATGAAGTTAT TGTGACAGAG AGCCATTATG CTCACGAACG TCAAAACGAA 180
72 GTAACTGGCT TGGGGAAAGT AGTAAAAAAT TATCACGAAA TGAGTAAAAA TCAAATTCTT 240
73 GGTATTCGTG ATTTAACTCG CTATGACCCCT GGTATTCGG TGGTGGAAACA AGGTCGCGGT 300
74 GCAAGTAGTG GCTATGCCAT TCGAGGTGTA GATAAAAACC GTGTCAGCTT ACTTGTGAT 360
75 GGGCTACCAAC AAGCGCACAG TTATCATAACG CTAGGTTCAAG ATGCTAATGG TGGTGCAATT 420
76 AATGAGATTG AGTATGAAAA CATTGTTCA ATTGAGTTAA GCAAAGGAGC AAGTTCTGCG 480
77 GAATATGGCT CTGGTGCAGCA TGTTGGTGCT ATTGGTTTC GTACTAAAGA TGCGCAGGAT 540
78 ATTATTAAG AGGGGCAGCA TTGGGGCTTA GATAGTAAGA CCTCTTATGC CAGCAAAAT 600
79 AGCCATTTT TACAGTCTAT CGCAGCGGCT GGTGAGGCGG GTGGTTTGAG AGCACTTGTT 660
80 ATTGCAACTC ACCGACACGG TAAAGAGACC AAAATTCAATT CCGAGGCAAA TAAATTAAGA 720
81 CATAATATTC GGCGTATAAC CGGCTTGAA AATCGCTACG ACTTTACCCA AATTCCGCAC 780
82 AGAATGCTCC TGGAGGATCT GCTTTAATT GTGGAAGATA CTTGCCAAC ATTAGATTGT 840
83 ACTCCTCGTG CAAGGGTTAA GTTGAACCGC GATAATTCC CAGTGAGAAC ATTTCCGGAA 900
84 TATACGCCTG AAGAGCGCAA ACAGCTTGAG CAGATTCCCTT ATCGCACTGA GCAGCTCTCA 960

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PATENT APPLICATION US/08/753,750DATE: 09/04/97
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101	TCTGTTTTA TGAAGTTGG CTATCACTTC AACTCGTCTC ATTATCTTGG CGCAATCTTA	1080
102	GAAGATACAA AAACACGCTA CGATATCCGT GATATGCAAA CGCCAGCTTA CTATACAAA	1140
103	GACGATATTA ACTTATCACT TAGGAACTAT GTTTATGAAG GGGATAATAT TTTAGATGGC	1200
104	TTAGTGTCA AGCCAAGGAT CCCTTATGGG TTGCGCTATA GCCATGTGAA GTTTTTGAT	1260
105	GAACGTCACC ACAAACGTCG TTTAGGATTAC ACCTATAAAT ATAAACCAGA GAATAATCGC	1320
106	TGGTTGGATA GCATTAAACT CAGTGCAGGAT AAACAAGATA TTGAACTATA TAGCCGGCTA	1380
107	CATCGCTTGC ATTGTAGCGA TTATCCTGTG GTAGATAAAA ATTGCCGCC GACTTTGGAT	1440
108	AAATCTTGTT CTATGTATCG AACTGAGCGT AATAATTACC AAGAAAAGCA TCGTGTCA	1500
109	CATTTAGAAT TTGATAAAAGC GCTAAATGCT GGTCAAGGCG TATTTAACCA AACCCACAAA	1560
110	CTGAATTAG GGTTGGGCTT TGATCGATT AATTGCTTA TGGATCATGG GGATATGACT	1620
111	GCCCAATATA CCAAAGGCGG TTATACCAGC TACCGCGGTA GAGGGCGTTT AGATAATCCA	1680
112	TATATTTATC GCGCGATCC ACGCAGTATT GAAACGGTAT CTTGTGTAA TAATACACGC	1740
113	GGCGACATCT TAAACTGTGA ACCCGTAAA ATTAAAGGCG ATAGCCATT TGTTAGCTTC	1800
114	CGCGATCTAG TGATAAGCGA GTATGTGGAT TTGGGATTAG GGGTGCCTTT TGATCAACAT	1860
115	CGATTAAAT CTGATGATCC GTGGACACTT AGCCGAACCTT ATCGAAATTG GTCTTGGAA	1920
116	GGTGGGATTA CGCTTAAACC AACAGAGTTT GTATCGCTT CTTATCGCAT TTCAAACGGT	1980
117	TTTAGAGTGC CTGCATTCTA TGAACTTTAT GGTAAACGTG ATCATATTGG GCTTAAAGAT	2040
118	AACGAATATG TGCAACGCGC GCAACGTAGC CACCAAGTTAG AGCCAGAAAA ATCGACTAAT	2100
119	CATGAGATTG GAGTTAGCTT TAAAGGTCAA TTTGGTTACC TTGAATTCC GTAATAACTA	2160
120	TAAAAATATG ATTGCGACAG CATGAAAG AATAATACAA AAATCACACT GTTTCTATAA	2220
121	CTACCATAAT ATTCAAGATG TAGCACTAAA CGGGATAAAT TTAGTCGCTA AATTGACTT	2280
122	ACACGGTATT TTATCTATGC TGCCAGATGG TTTTTATTCA TCAGTTGCTT ATAACCGTGT	2340
123	AAAAGTAAAA GAGCGGAAAC TAACCGACTC AAGACTCGAT AGCGTAAACG ATCCTATTCT	2400
124	AGATGCGATT CAGCCAGCAC GCTATGTGCT TGGATTCCGC TACGATCACC CAGAAGAAAA	2460
125	ATGGGGAATT GGCATTACTA CCACCTATTC TAAAGCCAAA AACGCCGATG AGGTGGCAGG	2520
126		

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PATENT APPLICATION US/08/753,750DATE: 09/04/97
TIME: 14:55:12

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153 CACACGTCAT CACGGATACA TCGCGTTGAT TTAGGTGGCA AACTGACCGG TTCTTGGTAC 2580
154
155 ACCCATGATA TTACCGGTTA CATCAATTAT AAAAACTACA CCTTACGTGG AGGAATTTAT 2640
156
157 AATGTGACTA ATCGTAAATA TTCCACTTGG GAATCAGTGC GCCAATCCGG TGTGAATGCA 2700
158
159 GTAAACCAAG ACCGGGGTAG CAATTACACT CGATTTGGCG CTCCGGGGAG AAATTTCACT 2760
160
161 TTAGCATTG AAATGAAGTT TTAG 2784
162
163 (2) INFORMATION FOR SEQ ID NO:2:
164
165 (i) SEQUENCE CHARACTERISTICS:
166 (A) LENGTH: 930 amino acids
167 (B) TYPE: amino acid
168 (C) STRANDEDNESS: single
169 (D) TOPOLOGY: linear
170
171 (ii) MOLECULE TYPE: protein
172
173 (vi) ORIGINAL SOURCE:
174 (A) ORGANISM: Pasteurella haemolytica (TbpA protein)
175
176
177
178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
179
180 Met Ile Met Lys Tyr His His Phe Arg Tyr Ser Pro Val Ala Leu Thr
181 1 5 10 15
182
183 Val Leu Phe Ala Leu Ser His Ser Tyr Gly Ala Ala Thr Glu Asn Lys
184 20 25 30
185
186 Lys Ile Glu Glu Asn Asn Asp Leu Ala Val Leu Asp Glu Val Ile Val
187 35 40 45
188
189 Thr Glu Ser His Tyr Ala His Glu Arg Gln Asn Glu Val Thr Gly Leu
190 50 55 60
191
192 Gly Lys Val Val Lys Asn Tyr His Glu Met Ser Lys Asn Gln Ile Leu
193 65 70 75 80
194
195 Gly Ile Arg Asp Leu Thr Arg Tyr Asp Pro Gly Ile Ser Val Val Glu
196 85 90 95
197
198 Gln Gly Arg Gly Ala Ser Ser Gly Tyr Ala Ile Arg Gly Val Asp Lys
199 100 105 110
200
201 Asn Arg Val Ser Leu Leu Val Asp Gly Leu Pro Gln Ala His Ser Tyr
202 115 120 125
203
204 His Thr Leu Gly Ser Asp Ala Asn Gly Gly Ala Ile Asn Glu Ile Glu
205 130 135 140

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PATENT APPLICATION US/08/753,750**

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/753,750**

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Original Text